

A Mouse ST8Sia VI

B Human ST8Sia VI

1/12

Fig.2

A

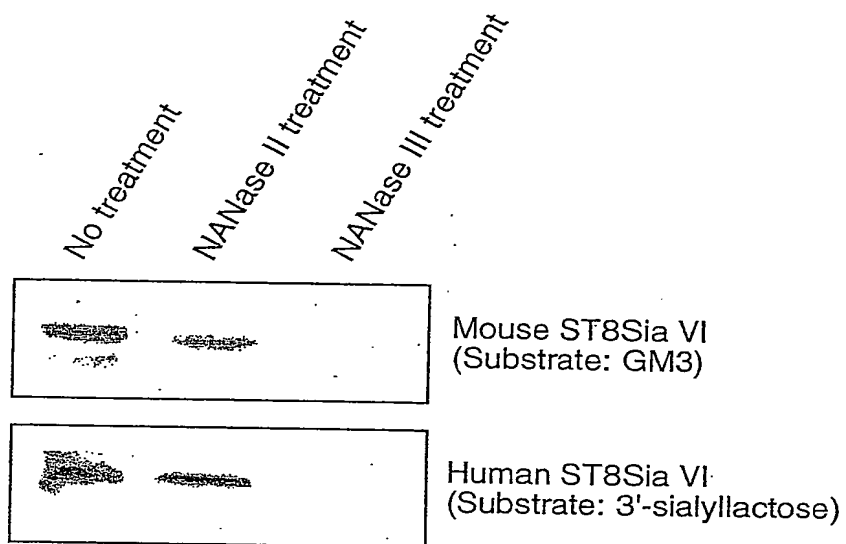
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ST8Sia V	1	MRYADESANEDLLGNRTLLLEIFTCAFAIVTLLIQILYSKSYIKR-GFQFGWQRGIQQQNW	59
ST8Sia VI	1	-----MRSGGT--LEFALTGSLMILLIRMLWCPADAPASRLLMEGSRELTSGTS	48
ST8Sia I	32	SAT-----C-V---VV--LCWLY-IF--EV-Y---R--LPNEKEIVQG-VIA---QRT--A	66
ST8Sia V	60	TGIFNDSLSPTTEQNITGSSRRYFEFYKPELEFNSTECIELRQEIIEVKVISMVKCSPTFE	119
ST8Sia VI	49	AAI--KTLWSPTTPVPRTRNSTYLD-ETTTQITEKCKDLQYSLNSISNKTTRYSEDYI--Q	105
ST8Sia I	67	-WRT-N--Q---TC--ASLFRQMEDCCIPAHLEAMTKMNSFMGKSLWYDGLLYSFTII	117
ST8Sia V	120	RWKSLQICKWAMGASEASLFKSTISRCQNAFNFLETTCKNTPTVETNIRYEVESSGLYHII	179
ST8Sia VI	106	TITNIGRCFENRQEEFYDNFAKIASCCDAIQDEVVVSQNNTPVGTNMSYEVESSKKHIFIR	165
ST8Sia I	118	NSTYSLFFQATE--FQIEIKKCAVVGNGGILKMSGCARCIIEPNFVMRCNLPLISSEYTRII	176
ST8Sia V	180	QELFKMFEMKEMYYRSQFKKCAVVGNGGILKMSGCKEINSADFVFCNLPPIISGIYTTII	239
ST8Sia VI	166	ENIFHMFVVSQEFVDYHYNQCAVVGNGGIINKSLCGAEIKKSDVFRCNLPPIITGSASKII	225
ST8Sia I	177	VGSKTQLVTANPSIIRQRFENI--LWSRKKFVDNMKIINHSYIYMPAFSMKTGTETPLRVY	235
ST8Sia V	240	VGEKTDVTVNPSIIIDRHKKLEKW--RRFFSVLQRYENASVLLPAFYNVRNTLVSRFK	298
ST8Sia VI	226	VGSKTNLVTNPSIITLKYQNLKE-KKAQFLEDISTYGDFAILLPAFSYRANTGISFKVY	284
ST8Sia I	236	YTLKDVGANCTVLEAFENFELNIGKFWKSRGIHAKRLSTGIFLVSAALGLCEEVSTYGFV	295
ST8Sia V	299	YMDLDFQSRQFVYFFHHCYIISVSRYWLSLGRARRISTGISLVTAALCELCEEVHIFGFV	358
ST8Sia VI	285	QTLHESKMRQKVLFFHERYLFHLALFWRTKGVTAIRLSTGLMIAVAVELCENVKLYGFV	344
ST8Sia I	296	PFVVMQGIPISSHYYDNVLFESGYHAMIEEFILWYLLKIGALRMOLDPEEPSQPTS	355
ST8Sia V	359	AFPMNPSGFFIITHYYDNVKKPFGFHAMESEIFTIRMSRGILFVHTGTQ--NCC-----	412
ST8Sia VI	345	PFKTIEDTEILSHYYDNMLPKHGFHQMREYSQMLQHMKGILKQFSKCE--TA-----	398

B

mST8Sia VI	1	MRSGGTIFALIGSIMLLLLLRLWCPADAPASRLLMEGSREDISGTSAALKTIWSSETTP	60
hST8Sia VI	1	MRPGGAILLAILASIIILLLLLFILWCPADAPAGFAFIIIVEESREATHGTFAALRTIRSEATA	60
mST8Sia VI	61	VPRTRNSTYIIDEKTTQITEKCKDLQYSLNSLSNKTTRYSEDDYLQTTITNIGRCPWNRQAE	120
hST8Sia VI	61	VPRATNSTYIINEKSLQITEKCKNLQYGIESFSNKTGYSENDYLCIITDICSQPKWROAE	120
mST8Sia VI	121	EYDNFRAKLASCCDAIQDEVVVSQNNTPVGTNMSYEVESSKKHIPIRENIFHMFVVSQPFVI	180
hST8Sia VI	121	EYANFRAKLASCCDAVQNFVVVSQNNTPVGTNMSYEVESSKKHIPIKKNIFHMFVVSQPFVI	180
mST8Sia VI	181	YPYNQCAVVGNGGILNKSLCGAEIDKSDFVFCNLPPIITGSASKDVGSKTNLVTNPSIIT	240
hST8Sia VI	181	YPYNQCAVVGNGGILNKSLCGTEIDKSDFVFCNLPPIITGDDVSKDVGSKTNLVTINPSIIT	240
mST8Sia VI	241	TLKYQNLKEKKKQFLEDISTYGDFAILLPAFSYRANTGISFKVYQTIKESKMRQKVLFFH	300
hST8Sia VI	241	TLKYQNLKEKKKLFLEDIATYGDFAFFLPAFSFRANTGTSFKVYVYTIIESKARQKVLFFH	300
mST8Sia VI	301	FRYIRHLALFWRTKGVTAIRLSTGLMIAVAVELCENVKLYGFWPFSKTIETTELSSHYY	360
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hST8Sia VI	361	DNKLPKHGFHOMPKEYSQILQLMHKGILKQFSKCEVA-----	398

Fig.3

A



B

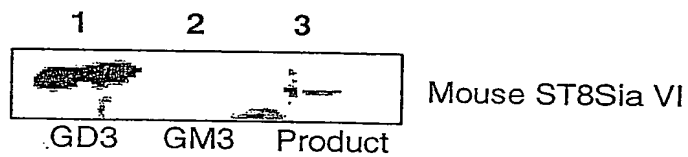


Fig.4

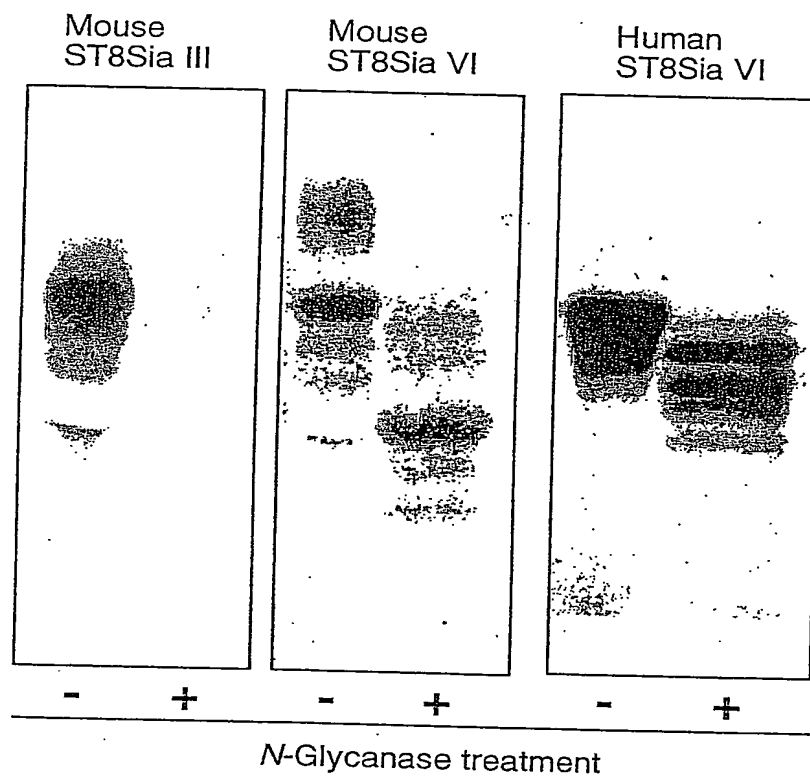


Fig.5

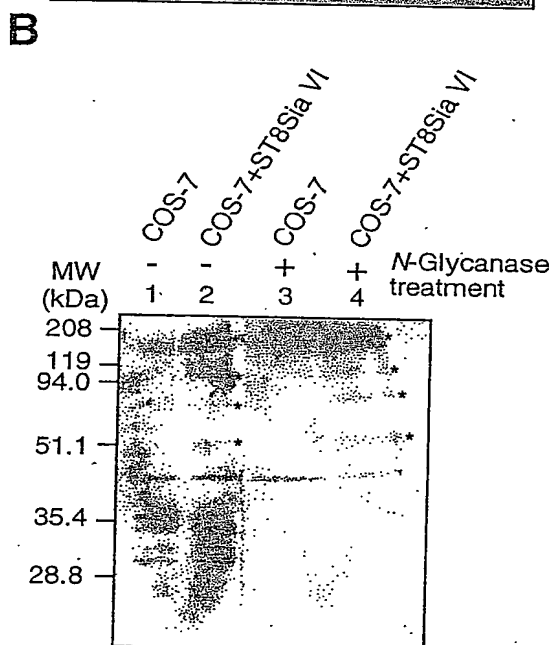
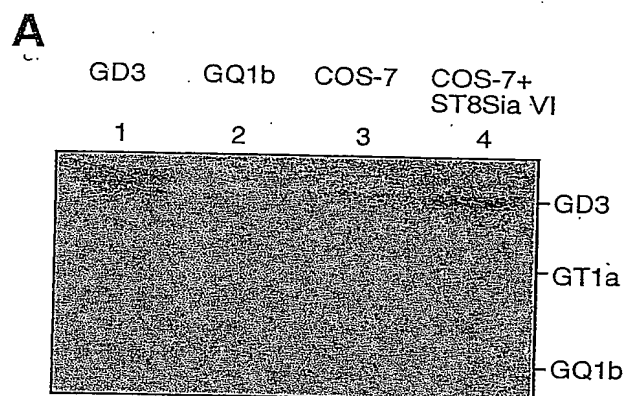
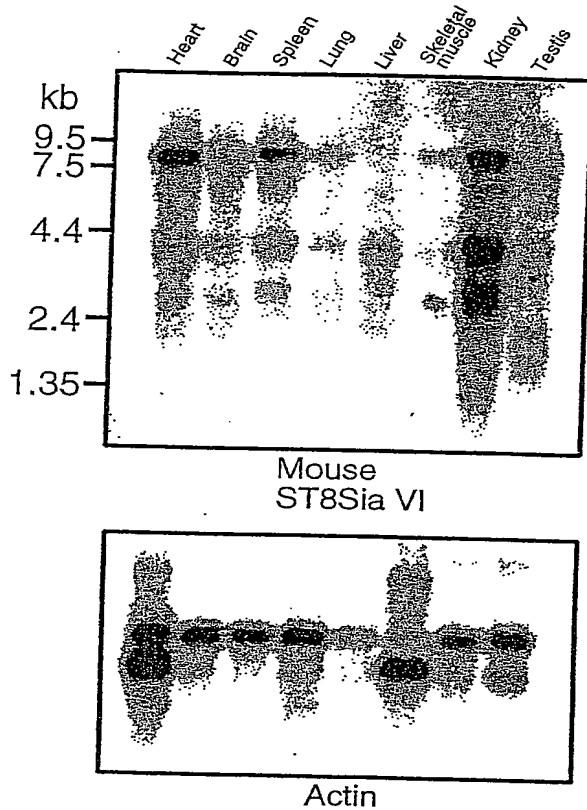
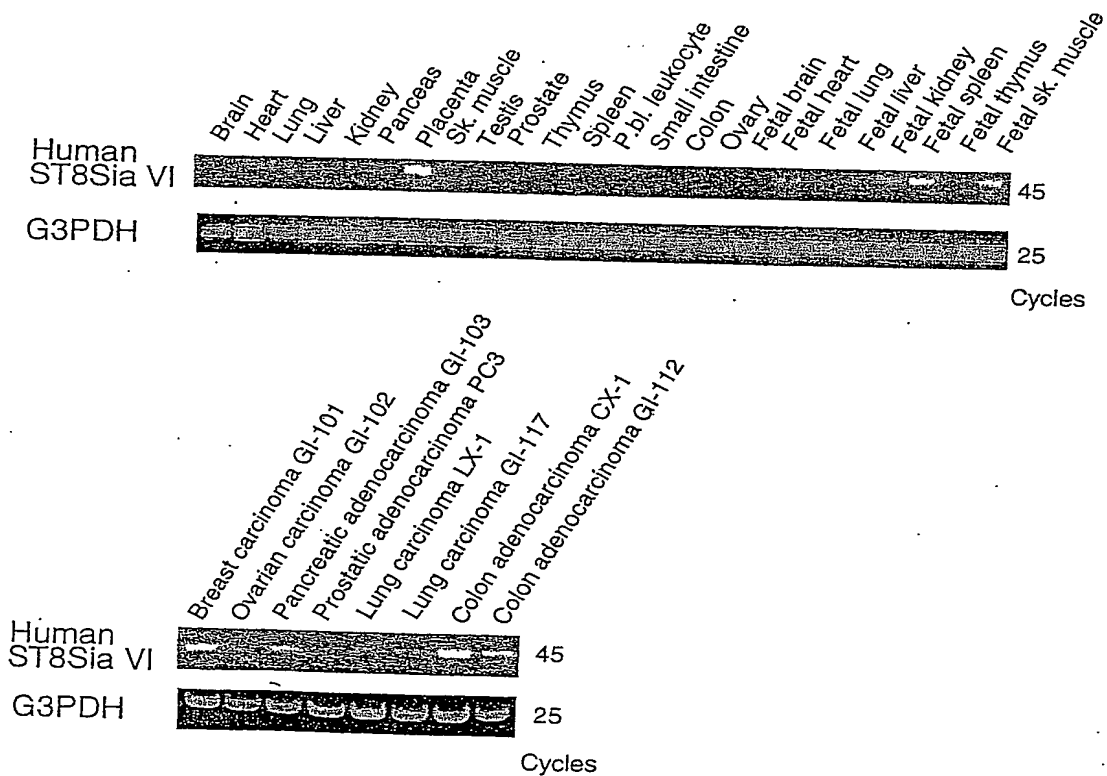


Fig.6

A



B



# Fig.7

A

## Human ST6Gal II

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Q R M L F G I F A W G L L F L L I F I Y F T D S N P A E P V P S S
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L S F L E T R R L L P V Q G K Q R A I M G A A H E P S P P G G L D
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E F F S S Q V G R K S Q S A F Y P E D D D Y F F A A G Q L P G W H S
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                                     529

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B

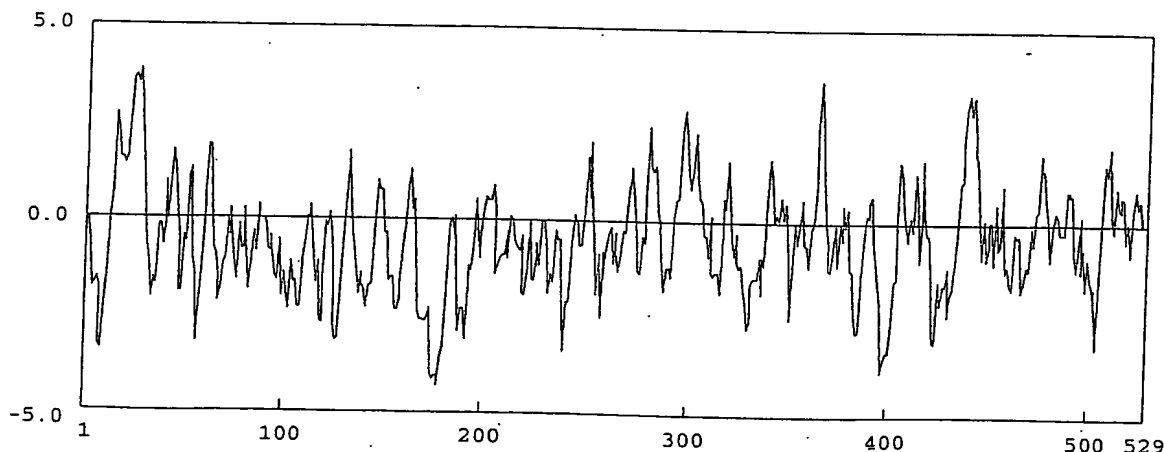


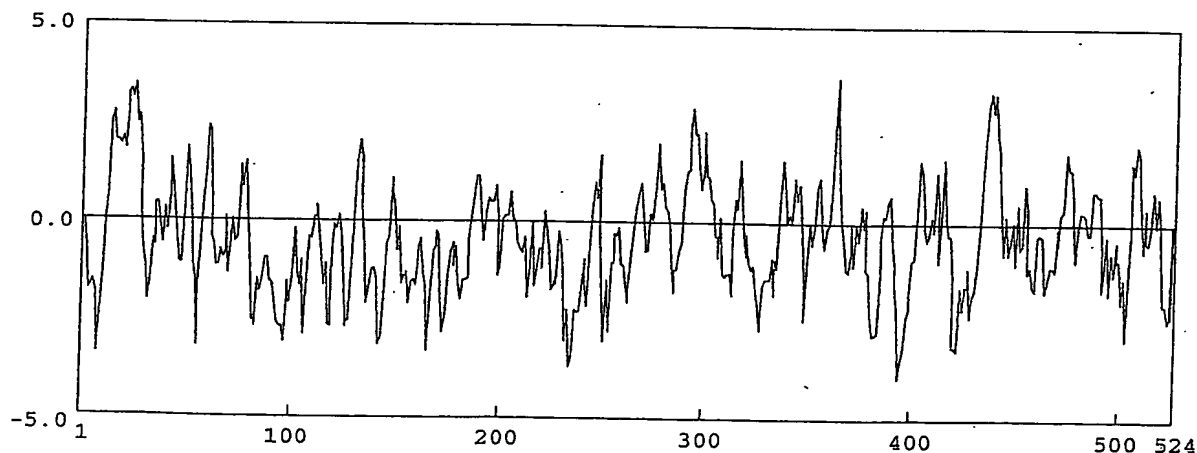
Fig.8

A

Mouse ST6Gal II

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CAATCCTGCGGCACCTATGCCAGCTCCTTTTCCTTCTGAGAGCGGTGGGCTCCTGCCTCTACAGGGCAAGCAGCGGGTCATCATGGCGCTTTGCAG 200  
N P A A P M P S S F S F L E S R G L L P L Q G K Q R V I M G A L Q 66  
GAACCTCTTTGCCAGAAGTTTGGATGCAAGCAAAGTGCTTCTGGACAGCCACCCTGAGAACCCTTCCACCCTTGGGCTGGGGACCCACAGAAATGGG 300  
E P S L P R S L D A S K V L L D S H P E N P F H P W P G D P Q K W D 100  
ATCAGGCCCAATGGCTTTGACAAATGGGGATGAGTTTTCATATCCAGGTGGGAGGAAATCACAAGCGCTTTCTATCCCGAGGAAGATAGCTATTT 400  
Q A P N G F D N G D E F F T S Q V G R K S Q S A F Y P E E D S Y F 133  
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F V A D Q P E L Y H H R Q G A L E L P S P G E T S W R S G P V Q P 166  
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K Q K L L H P R R G S L P E E A Y D S D M L S A S M S R A F L Y R L 200  
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W K G A V S S K M L N P R L Q K A M R Y Y M S F N K H G V R F R R 233  
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R G R R E A T R T G P E L L C E M R R R V R V R T L D G R E A P F 266  
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S G L G W R P L V P G V P L S Q L H P R G L S S C A V V M S A G A I 300  
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L N S S L G E E I D S H D A V L R F N S A P T R G Y E K D V G N K 333  
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T T V R I I N S Q I L A N P S H H F I D S A L Y K D V I L V A W D 366  
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TGCAATAAGGT 1611

B





# Fig.9

A

ST6Gal I	1	M-IH-TNLKKKFSCCVLVF-LLFAVTCV-WKEKKKG-SYYDSFK-LQTKFQVLKSLGKL	54
ST6Gal II	1	MKPHLKQWRQRMFLFGIFAWGLLELLFIYFTDSNPAEPVPSSLSFLETRRLLPVQKQRA	60
ST6Gal I	55	AMGSDSQSVSSSSSTQDPHRGRQTLGSLRGLAKAKPEAS-----	92
ST6Gal II	61	IMGAAHEPSPPGGLDARQALPRAHPAGSFHAGPGDLQKWAQSQDGFHEHKEFFSSQVGRKS	120
ST6Gal I	93	-----	92
ST6Gal II	121	QSAFYPEDDDYFFAAGQPGWHSHTQGTLCFPSPGEPGPREGAFPAQVQRRRVKKRHRRO	180
ST6Gal I	93	-----FQVWVKDSSSKNLIPLRLQKIWNKYLKSNKYKMSYKS	128
ST6Gal II	181	RRSHVLEEGDDGDRLYSSMSRAFLYRLWKGNVSSKMLNPRLOKAMKDYLTANKHGVRFRC	240
ST6Gal I	129	PGPGIKFSAAELRCHLRDHVNMVSMVEVDFPNTSEWEGYLEKESIRTKAGEPW--RCAV	186
ST6Gal II	241	K-REAGLSRAQLLQQLRSRARVRTLDGTEAPFSALGWRRLVPAVPL-SQLHRLRLSCAV	298
ST6Gal I	187	VSSAGSLKSSQLGREIDDHDAVLRFNAGPTANFQDDVGTCTTIRLMNSQLVT-TEKRFLLK	245
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ST6Gal I	246	DSLYNEGILIVWDSVYHSDIPKWKYQNPDPYNNFKTYRKLHPNQPFYILKEQMPWELW	305
ST6Gal II	359	SSLYKDVILVAWDEAPMSANLNLYKKPDYNLFTPTIQHRQRNPNQPFYILHCKFIWQLW	418
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ST6Gal II	419	DIIDQENTKEKIQPNPPSSGFIGILIMMSMCREVHVVEYIPSVRQTELCHYHELYYDAAC	478
ST6Gal I	366	MGAYHPLLYEKNLVKHLNQGTDEDIYLLGKATLPGFRTIHC	406
ST6Gal II	479	LGAYHPLLYEKNLVQRLNMGTDGDLHRKKGKVVLPGFQAVHCPAPSPVIPH	529

B

hST6Gal II	1	MKPHLKQWRQRMFLFGIFAWGLLFLFIYFTDSNPAEPVPSSLSFLETRRLLPVQKQRA	60
mST6Gal II	1	MKPHLKQWRQRMFLFGIFVWGLLFLFIYFTDSNPAEPVPSSLSFLETRRLLPVQKQRA	60
hST6Gal II	61	IMGAAHEPSPPGGLDARQALPRAHPAGSFHAGPGDLQKWAQSQDGFHEH-KEFFSSQVGRK	119
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hST6Gal II	120	QSAFYPEDDDYFFAAGQPGWHSHTQGTLCFPSPGEPGPREGAFPAQVQRRRVKKRHR	179
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hST6Gal II	180	QRRSHVLEEGDDGDRLYSSMSRAFLYRLWKGNVSSKMLNPRLOKAMKDYLTANKHGVRF-	238
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mST6Gal II	413	WDIIQENTREKIQPNPPSSGFIGILIMMSMCKEVHVVEYIPSVRQTELCHYHELYYDAAC	472
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Fig.10

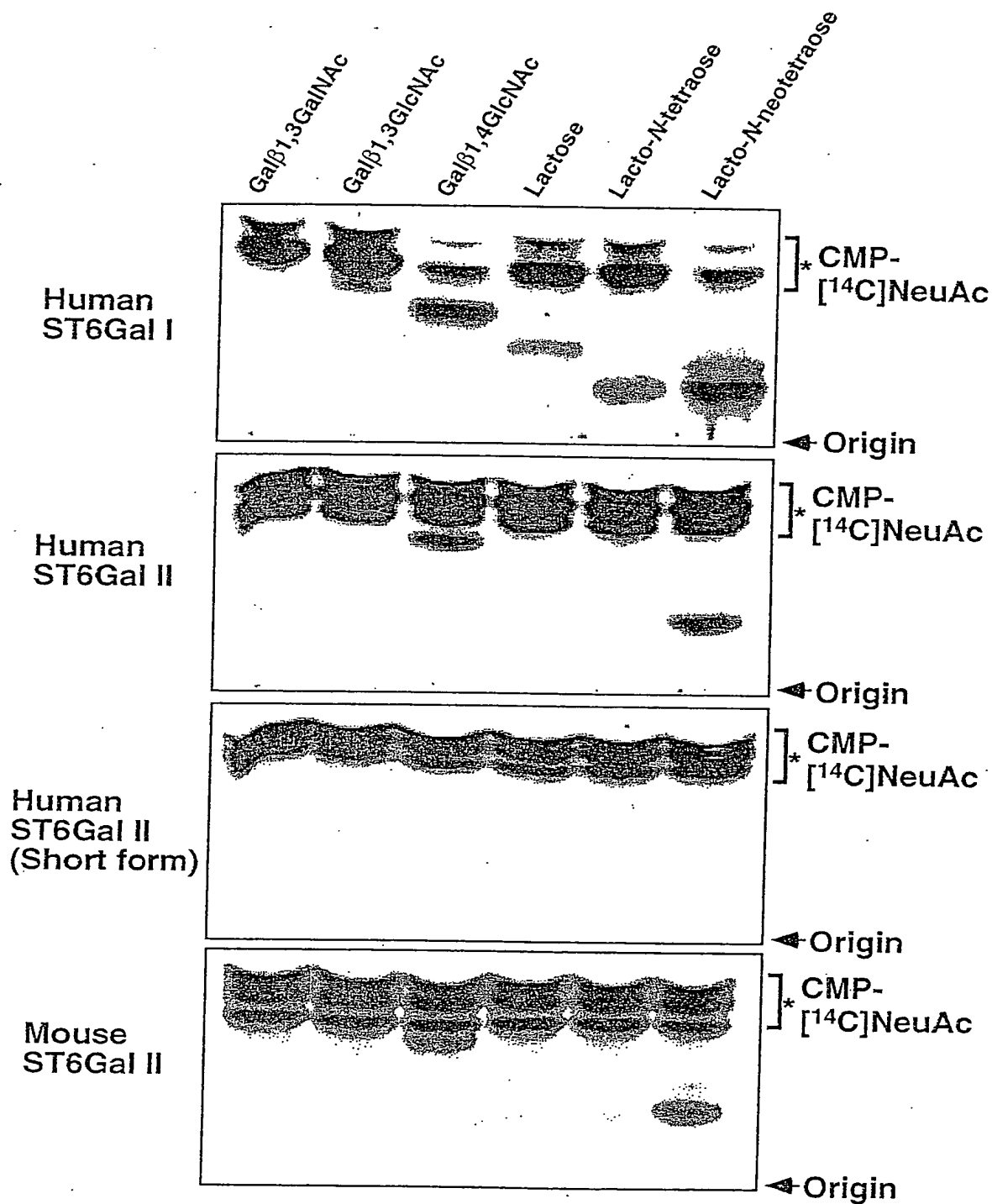
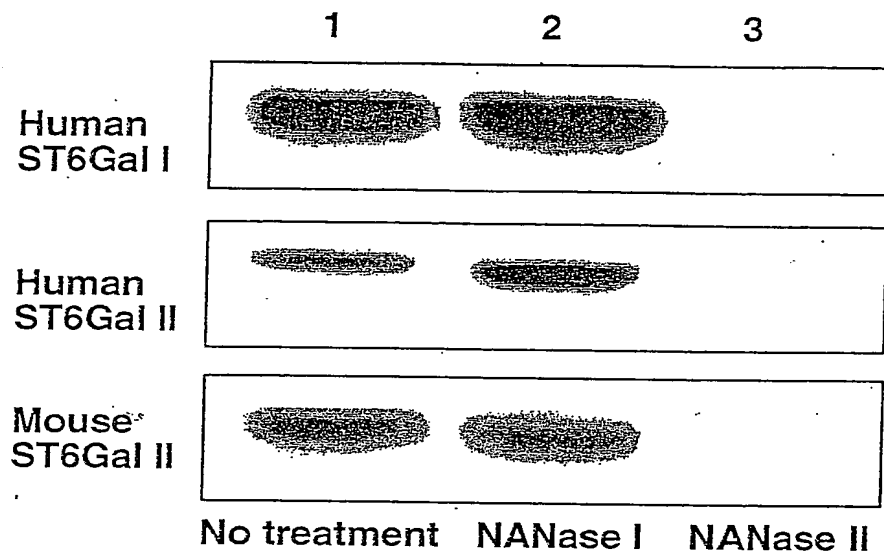


Fig.11

A



B

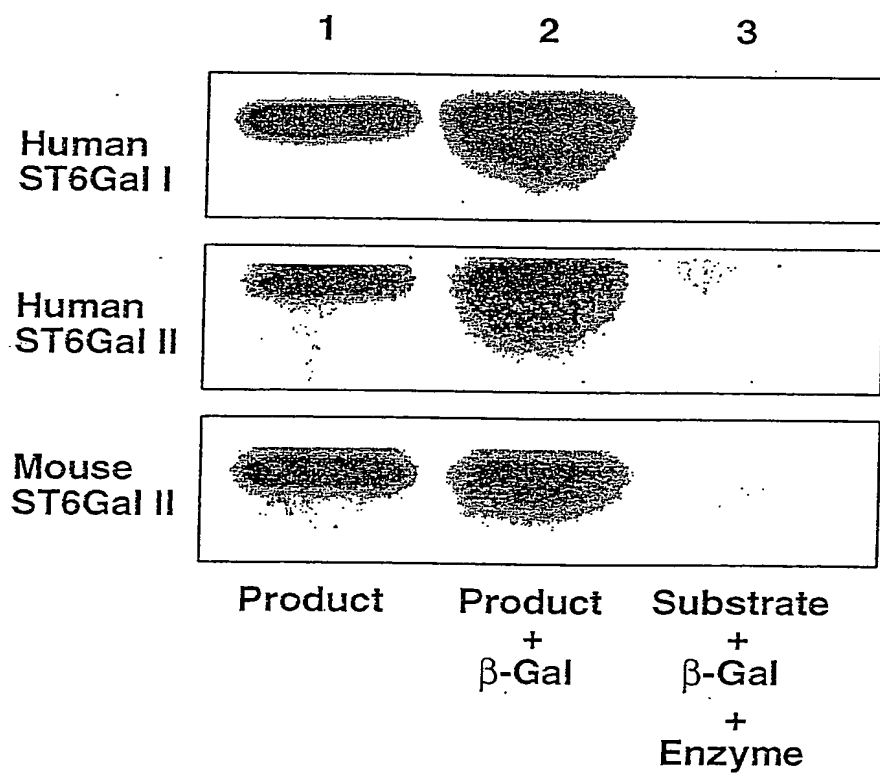
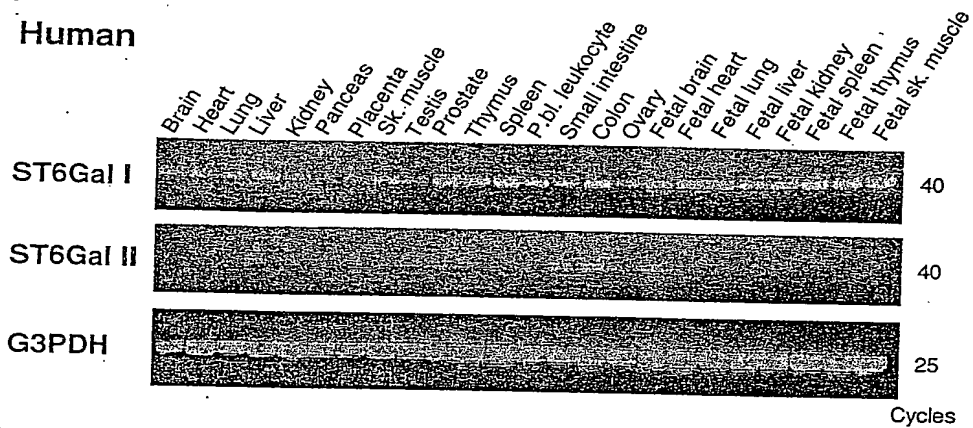


Fig.12

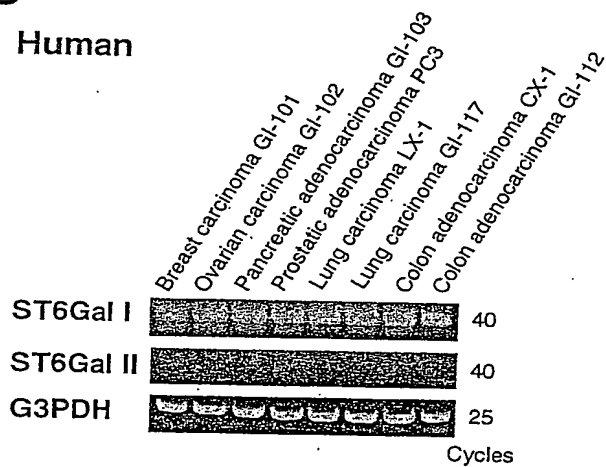
**A**

Human



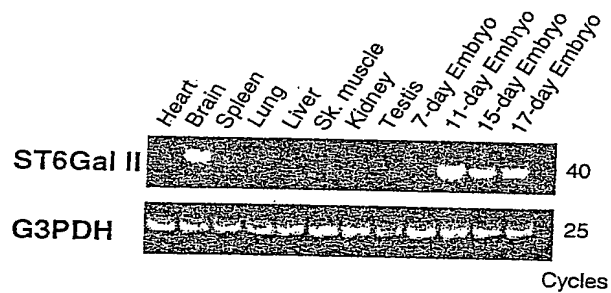
**B**

Human



**C**

Mouse



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